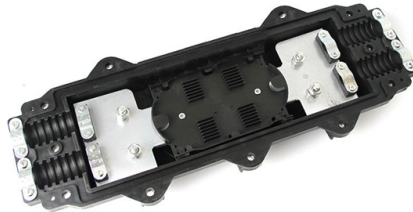


NRZ OEM Active Optical Module



Overview

The NRZ transmitter module consists of InP Mach Zehnder Modulator and conventional Distributed Feed-Back (DFB) laser. HIGH PERFORMANCE UNDER EXTREME CONDITIONS, the Amphenol AOP 28Gbps extended temperature " Quad Embedded Pluggable Transceiver " is designed for highly challenging applications where both reliability and performance are critical. Capable of speeds up to 28Gbps at distances up to 70m for the full. Our active optical cable assembly portfolio provides greater cable flexibility and longer reach, as compared to both traditional passive copper solutions and emerging active copper (ACC/AEC) solutions, supporting high performance computing, data center, and networking interconnect applications. We. Broadex Technologies' high performance and cost effective 50G Optical Transceiver Modules are built utilizing our innovative COB technology. With options for a 4-channel configuration (4TX+4RX) or 12-channel half duplex (12TX or 12RX), this high-speed fiber optic module accommodates data. Amphenol QSFP DD to QSFP DD 200G Active Optical Cable assemblies increase the number of lanes from 4 to 8 and double the port density as compared to 100G QSFP28 AOC. These AOC assemblies are QSFP DD MSA compliant, also backwards port compatible with existing QSFP modules and provide flexibility for. NRZ Variant: 4x25G NRZ PCS to 1x100G KP/KR-FEC encoded PAM4 PAM4 Variant: 2x50G PAM4 to 1x100G KP/KR-FEC encoded PAM4 Host interfaces with full 4-tap Tx FIR with eye1/2 control Line interfaces support 3-tap Tx FIR with eye1/2 control Line Tx variants 3Vp-p differential MZM driver output.

Article Content

Feb 09, 2026

Amphenol Active Optics Products

Leading edge high-speed opto-electronic modules, global communication needs made simple. QEPT 4-TRX 100G NRZ - HOT PLUGGABLE HOT PLUGGABLE, the Quad Embedded Pluggable

Dec 20, 2025

Understanding NRZ vs. PAM4 Modulation Techniques

As a result, in 400G modules, PAM4 will replace NRZ as the dominant modulation technique for electrical/optical signal transmission and become the main rate of

Nov 09, 2025

PAM4 vs NRZ: Optical Ethernet Modulation Comparison

Compare PAM4 and NRZ modulation in optical Ethernet. Learn how PAM4 doubles data rates with better bandwidth efficiency vs NRZ's simplicity.

Oct 03, 2025

100G QSFP28 / SFP-DD Modules and Cables FAQ | FS

The electrical connector interface is 4 x 25G NRZ, the same as all existing traditional 100G QSFP modules. The optical output is a single wavelength (or lambda) 100Gbps PAM-4 optical signal.

Jun 15, 2026

QEPT Evaluation Kit | Amphenol Active Optics Products

QEPT EVALUATION KIT 100Gbps High-Speed Optical Module & Board HIGH PERFORMANCE & EFFICIENCY FROM DAY 1 Amphenol QEPT Evaluation Kits are essential tools for engineers,

Jun 26, 2025

Active Optics Cable Assemblies | TE Connectivity

Our active optical cable assembly portfolio provides greater cable flexibility and longer reach, as compared to both traditional passive copper solutions and emerging active copper (ACC/AEC)

Jan 10, 2026

200G QSFP DD Active Optical Cable (AOC)

Amphenol QSFP DD to QSFP DD 200G Active Optical Cable assemblies increase the number of lanes from 4 to 8 and double the port density

Oct 25, 2025

OEM 100G QSFP28 & 200G QSFP56, QSFP-DD, CFP2

Direct OEM/ODM manufacturer of 100G/200G transceivers for AI clusters & hyperscale cloud. 100% tested 100G QSFP28, 200G QSFP56, QSFP-DD & CFP2 solutions.

Feb 04, 2026

40Gbps InP MZM Transmitter, NRZ, 1550nm - Lucent Technology

The NRZ transmitter module consists of InP Mach Zehnder Modulator and conventional Distributed Feed-Back (DFB) laser. The modulation signal is applied to the integrated MZM modulator while the

Nov 11, 2025

PAM4 and NRZ

Leveraging its own advantages (such as high performance), PAM4 will become the mainstream modulation method for 200G/400G/800G Ethernet

Aug 20, 2025

Arista Optics Modules and Cables

Arista's Optical Modules and Cable portfolio offer a wide variety of high-density and low-power 800G (dual 400G), 400G, 200G, 100G, 50G, 40G, 25G, 10G, 1G, and 100M Ethernet connectivity options

Sep 11, 2025

100G QSFP28 Active Optical Cables 4x25G NRZ, 100Meters (328ft)

100G QSFP28 Active Optical Cables 4x25G NRZ, 100Meters (328ft) FIBERSTAMP 100G QSFP28 AOC active optical cable is used for short-distance interconnection between internal devices in data centers.

Oct 04, 2025

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

QSFP-DD Transceiver Module Types and Specifications 400G Transceiver Module Types Module Technology Deep-Dive 800G QSFP-DD Module Types QSFP-DD Transceiver Cable

May 12, 2026

Alcor 100G PAM4 for Optical Module Applications

The Marvell Alcor PAM4 DSP is a next generation solution for cloud data center, high-performance computing, and AI optical transceivers. Alcor supports multiple industry standard protocols up to

Sep 18, 2025

LEAP OBT 12-TRX 300G NRZ | Amphenol Active Optics

LEAP® ON-BOARD TRANSCEIVER 12-TRX 300Gb/s High-Speed Optical Module SMALL, FAST AND, POWER EFFICIENT, the LEAP® On-Board Transceiver is a

Aug 02, 2025

Amphenol Active Optics Products

50 Gbps High-Speed Optical Module Card in an adapter card interface enabling two Amphenol Ruggedized SCFF modules mounted and soldered, boosting performance and versatility.

Nov 11, 2025

50G Optical Transceiver Modules | Broadex Technologies

These reliable and robust QSFP28 modules support high speed bit rates up to 50Gb/s over link distances up to 40km and can be offered with a choice of 1-lane

Feb 12, 2026

120G CXP Active Optical Cables 12x10G NRZ,

120G CXP Active Optical Cables 12x10G NRZ, 300Meters (984ft) FIBERSTAMP 120G CXP AOC active optical cable is used for short-distance interconnection

Oct 28, 2025

Active Components for 50Gb/s NRZ-OOK Optical ...

We present active components developed in imec's silicon photonics platform that enable 50 Gb/s non-return-to-zero (NRZ) operation using CMOS compatible voltages.

Oct 29, 2025

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

Active Electrical Cable (AEC) Active Optical Cable (AOC) Breakout Configurations 400G Deployment with QSFP-DD Switch Platform Compatibility Power Class Requirements Migration from

Mar 10, 2026

Optical Transceiver Types: Use Cases, Compatibility & Buying Tips

Explore optical transceiver types, real-world use cases, and expert buying tips to help you choose the right SFP, QSFP, or AOC/DAC.

Dec 26, 2025

QEPT 4-TRX 100G NRZ

QEPT 4-TRX 100G NRZ 100 Gb/s High-Speed Optical Pluggable Module HIGH PERFORMANCE UNDER EXTREME CONDITIONS, the Amphenol AOP 28Gbps extended temperature " Quad

May 09, 2026

200G QSFP-DD Active Optical Cables 8x25G NRZ,

Description An active optical cable assembly with a 200G QSFP-DD SR8 optical transceiver module integrated at each end Each side contains 8 channels of

Jul 27, 2025

(PDF) Eye-Diagram-Based Evaluation of RZ and NRZ

Eye-Diagram-Based Evaluation of RZ and NRZ Modulation Methods in a 10-Gb/s Single-Channel and a 160-Gb/s WDM Optical Networks March 2017

Jun 24, 2026

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate. Backwards

Apr 19, 2026

Active Components for 50 Gb/s NRZ-OOK Optical Interconnects in a ...

We present active components developed in imec's silicon photonics platform that enable 50-Gb/s non-return-to-zero operation using CMOS compatible voltages.

Feb 28, 2026

QEPT-50G | Amphenol Aerospace

With options for a 4-channel configuration (4TX+4RX) or 12-channel half duplex (12TX or 12RX), this high-speed fiber optic module accommodates data rates of

Feb 26, 2026

Silicon Photonics Platform for 50G Optical Interconnects

50G NRZ Silicon Photonics Platform Passive Devices Modulators Photodetectors Optical I/O module Transceiver Architectures and scalability TSV integration with Silicon photonics CMOS

Contact Us

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